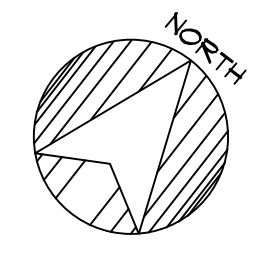


ROOF FRAMING PLAN  
3/16"=1'-0"

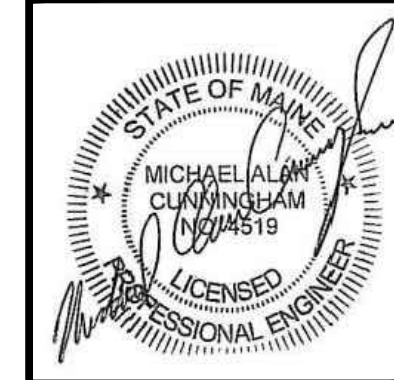


NO.	DATE	REVISION
	5-27-22	ISSUED FOR CONSTRUCTION

DRAWN BY: SJAM  
 CHECKED BY: MAC  
 ISSUE DATE: 5-27-22  
 PROJ. NO.: 2021.140

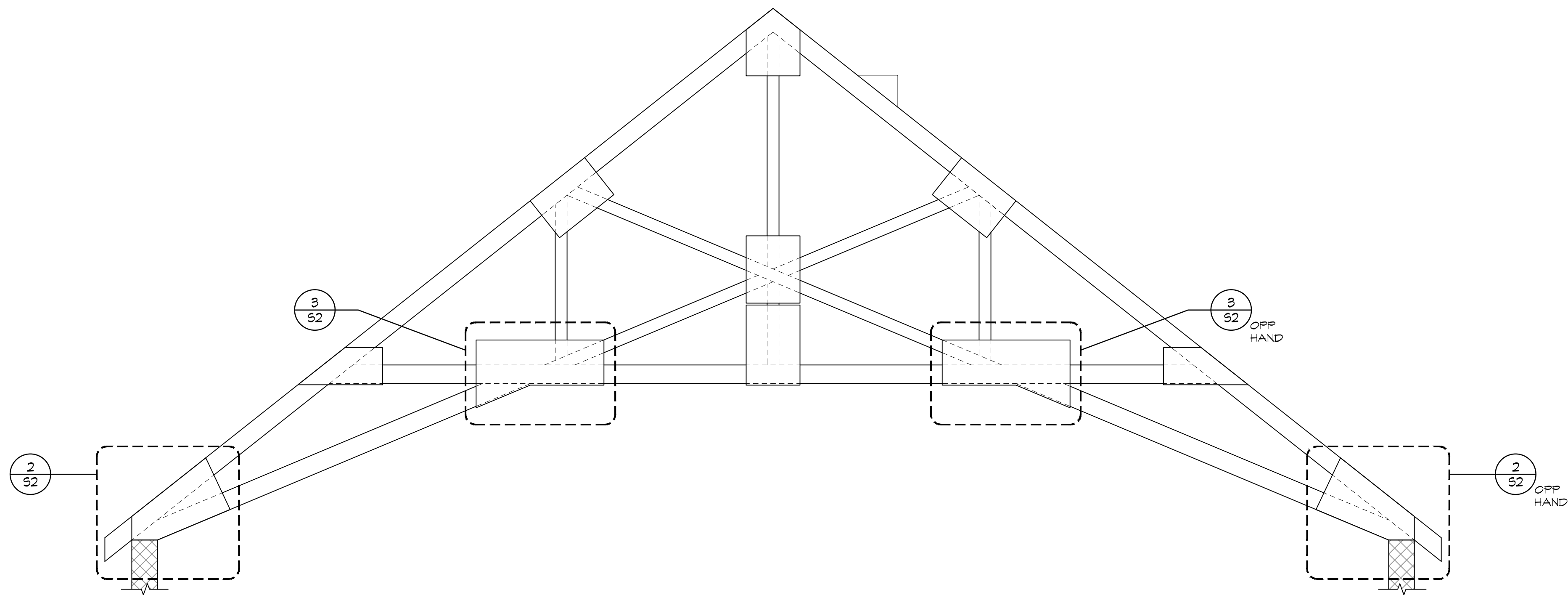
**Plate Shop Metal Roofing Project**  
 Plate Shop Prison Farm  
 Warren, Maine

ROOF FRAMING PLAN

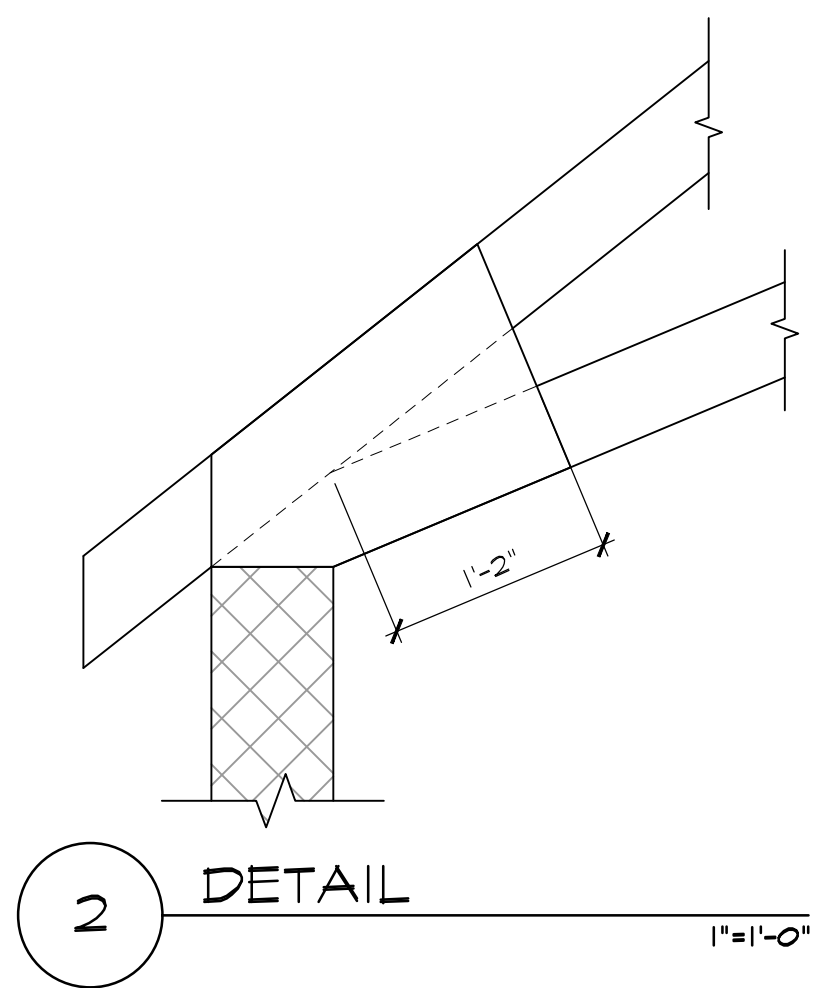


**Lincoln / Haney**  
 Engineering Associates, Inc.  
 14 Maine Street, Suite 306A  
 Brunswick, Maine 04011  
 Phone: 207-729-1061 Fax: 207-729-2941

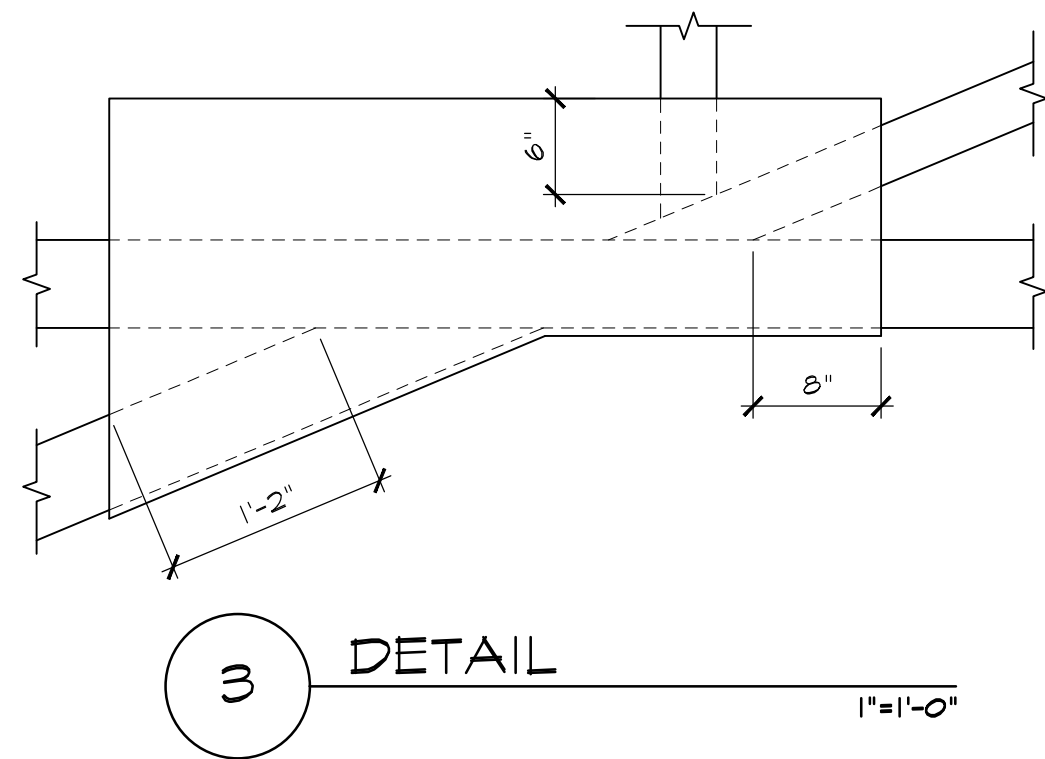
**S1**



1 MODIFICATIONS TO EXISTING ROOF TRUSSES  
1/2"=1'-0"



2 DETAIL  
1"=1'-0"



3 DETAIL  
1"=1'-0"

**DESIGN NOTES**


1. ROOF REINFORCEMENT IS DESIGN TO COMPLY WITH THE 2015 EDITION OF THE INTERNATIONAL BUILDING CODE AND THE 2010 EDITION OF THE "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" BY THE AMERICAN SOCIETY OF CIVIL ENGINEERS, ASCE7-10. DESIGN CRITERIA IS AS FOLLOWS:
  - A. GROUND SNOW LOAD  $P_g = 50$  PSF.
  - B. THERMAL FACTOR  $C_t = 1.1$ .
  - C. EXPOSURE FACTOR  $C_e = 1.0$ .
  - D. IMPORTANCE FACTOR  $I_s = 1.0$ .
  - E. SLOPED ROOF FACTOR FOR A ROOF WITH UNOBSTRUCTED, SLIPPERY SURFACE  $C_s = 0.54$ .
  - F. DESIGN ROOF SNOW LOAD  $P_s = 20.8$  psf.

**GENERAL INSTALLATION NOTES**

1. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING THE STRUCTURAL ALTERATIONS WITHOUT DAMAGE TO THE BUILDING BEYOND THE SPECIFIED REPAIRS. ANY DAMAGE THAT DOES OCCUR AS A RESULT OF THE CONTRACTOR'S OPERATIONS WILL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR.
2. ACCESS FOR JOINT REINFORCEMENT SHALL BE FROM ABOVE. REMOVE EXISTING ROOFING AND ROOF DECK AS REQUIRED TO PERFORM THE SPECIFIED WORK. LIMIT REMOVALS TO THE EXTENT THAT CAN BE CLOSED IN BY THE END OF THE DAY. DO NOT LEAVE ANY PORTION OF THE BUILDING EXPOSED TO WEATHER OVERNIGHT. THE CONTRACTOR SHALL BE RESPONSIBLE TO AVOID EXPOSURE DURING INCLEMENT WEATHER OR WHEN INCLEMENT WEATHER MAY BE PREDICTED. IN THE EVENT THAT ANY DAMAGE TO THE INTERIOR OF THE BUILDING OCCURS DUE TO THE CONTRACTOR'S OPERATIONS OR FROM WEATHER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RETURNING THAT PORTION OF THE BUILDING TO THE CONDITION THAT EXISTED BEFORE THE DAMAGE.
3. REMOVE EXISTING FIBERGLASS INSULATION AS REQUIRED.
4. INSTALL TEMPORARY SUPPORTS FOR TRUSSES AS REQUIRED TO MAINTAIN STABILITY OF THE TRUSSES BEFORE REMOVAL OF EXISTING PLYWOOD GUSSET PLATES. MAINTAIN TEMPORARY SUPPORTS IN PLACE UNTIL NEW GUSSET PLATES ARE FULLY NAILED IN PLACE.
5. AFTER GUSSET PLATE INSTALLATION IS COMPLETE, REINSTALL FIBERGLASS INSULATION TO DEPTH EQUAL TO WHAT WAS PREVIOUSLY IN PLACE.
6. REINSTALL ROOF DECK WITH APA RATED SHEATHING AT THICKNESS TO MATCH EXISTING, ADJACENT PANELS. NAIL TO TRUSSES WITH 10D NAILS AT 6" ON CENTER AT EACH SUPPORTING TRUSS.

**TRUSS JOINT MODIFICATION DETAILS**

1. INSTALL JOINT REINFORCEMENT AT LOCATIONS INDICATED.
2. GUSSET PLATES SHALL BE PLYWOOD APA RATED SHEATHING, EXPOSURE 1, 2 3/8" THICK WITH SPAN RATING 4 3/4.
3. GLUE AND NAIL GUSSET PLATES TO BOTH FACES OF TRUSSES. GLUE SHALL COMPLY WITH ASTM D4699 OR D2559. MIX AND APPLY GLUE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
  - A. UNIFORMLY SPREAD GLUE OVER BOTH SURFACES OF THE JOINT.
  - B. NAIL WITH 6D (0.113" DIAMETER X 2") NAILS SPACED AT 3" ON CENTER EACH WAY. NAIL EDGES AT 3/4" FROM THE PANEL EDGES.
  - C. DRILL PILOT HOLES 1/16" IN DIAMETER WHERE SPECIFIED NAILING PLACES A NAIL WITHIN 2" OF THE END OF THE STRUCTURAL MEMBER AND ELSEWHERE WHERE SPLITTING MAY OCCUR.

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DRAWN BY: SJAM CHECKED BY: MAC ISSUE DATE: 5-27-22 PROJ. NO.: 2021.140	<b>Plate Shop Metal Roofing Project</b> Plate Shop Prison Farm Warren, Maine		<b>TRUSS REPAIR ELEVATIONS AND DETAILS</b>		
					
<b>Lincoln / Haney</b> Engineering Associates, Inc. 14 Maine Street, Suite 306A Box 7 Brunswick, Maine 04011 Phone: 207-729-1061 Fax: 207-729-2941					
S2					